6. System Configuration

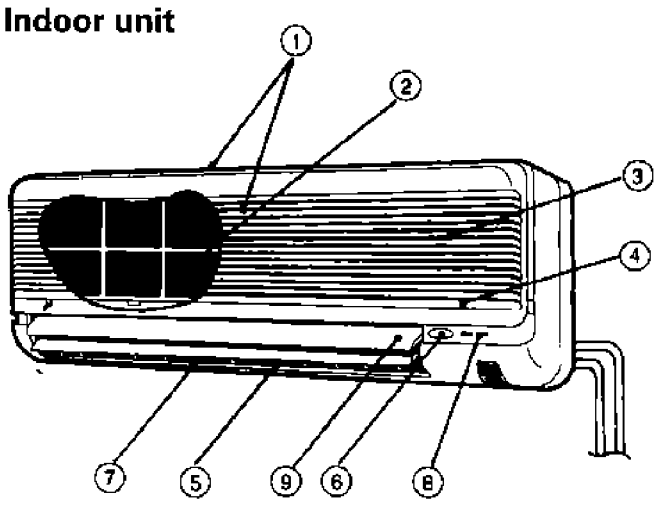
Operation Instructions

After the installation and test operation of the room airconditioner have been completed, it should be operated and handled as described below. Every user would like to know the correct method of operation of the room airconditioner, to check if it is capable of cooling (or heating) well, and to know a clever method of using it.
In order to meet this expectation of the users, giving sufficient explanations taking enough time can be said to reduce about 80% of the requests for servicing. However good the installation work is and however good the functions are, the customer may blame either the room airconditioner or its installation work because of improper handling. The installation work and handing over of the unit can only be considered to have been completed when its handling has been explained to the user without using technical terms but giving full knowledge of the equipment.

<CTK22FVALT, CTK25FVEN>

(1) Indoor and Outdoor Unit

Indoor unit



① Air inlets (top and front)

② Air filters (There are two air filters inside.)

③ Front panel

④ Unit Operation Panel

⑤ Air outlet

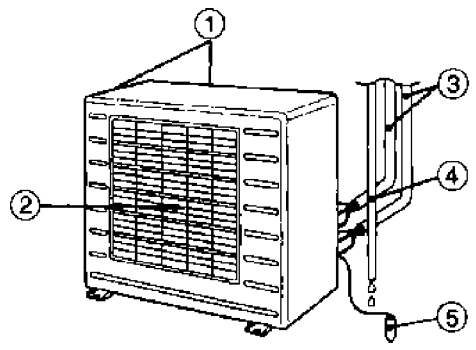
⑥ Model name

⑦ Vertical louvers

⑧ Unit display panel

⑨ Horizontal blades (Flaps)

Outdoor unit



① Air inlets (back and side)

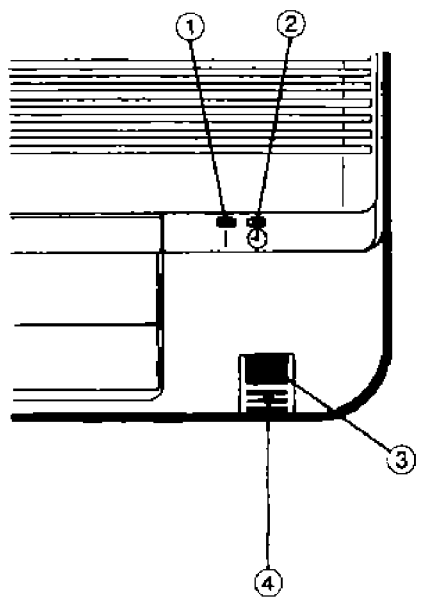
② Air outlet

③ Refrigerant piping and inter-unit cable

④ Drain hose

⑤ Earth rod

(2) Unit Operation Panel and Display Panel

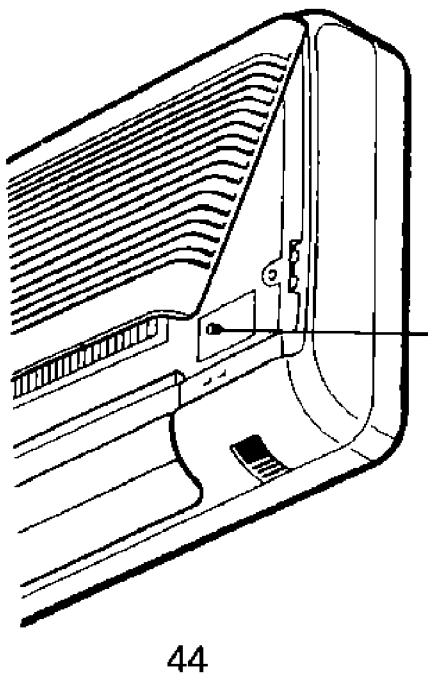


① **OPERATION indicator lamp (green)**
Lights up on system activation irrespective of operation mode.

② **TIMER indicator lamp (green)**
Lights up when "TIMER OFF" countdown is in progress.

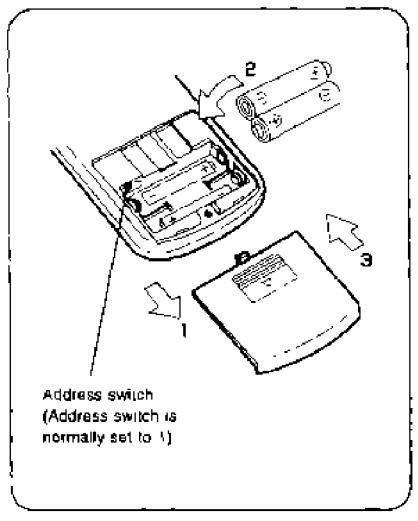
③ **Signal receiver** – Receives signals from the remote controller.

④ **Temperature sensor** – monitors room temperature.



AUXILIARY switch
(Inside here. Open the cover to see it.)

(4) Set Up Before Operation



< Setting dry batteries >

1. Slide the back cover of the remote controller in the direction of the arrow and take it off.
2. Set two dry batteries in accordance with the indications of (+) and (–).
3. Set the back cover as before.

Notes on batteries

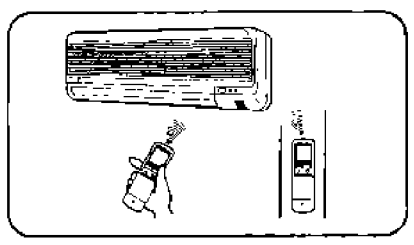
- Replace the batteries with new ones when, on pressing a button, the display shows all figures and letters at the same time and no signal communication takes place.
- Use two LR03 (AAA) batteries.
- Never mix new and old batteries or different types of batteries.
- Never try to charge the batteries.
- Used-up batteries must be taken out all at once and treated correctly

Address switch

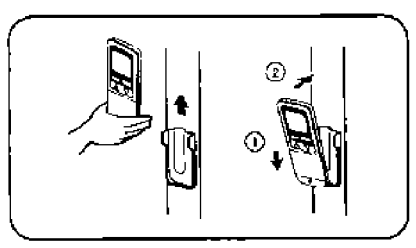
Address switch is used for the installation of 2 units in one room. Contact the shop you purchased this DAIKIN room air conditioner if you would like to have 2 units/room.

A unit will not be able to receive signals from a wireless remote controller when the address switch is set to 2.

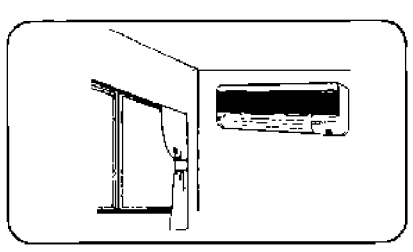
Be sure that it is set to 1.



- When using, aim the signal transmitter at the air conditioner. The operative distance between the remote controller and the air conditioner is about 7m in a straight line.
  A "peep" sound is heard when the unit receives a signal from the remote controller.

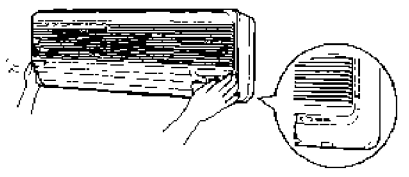


- To prevent loss or damages of the remote controller, fix it on a wall or a pillar using a remote controller holder. First, check that the signals from the remote controller in the place you chose can reach the air conditioner, and then f x it in the place.



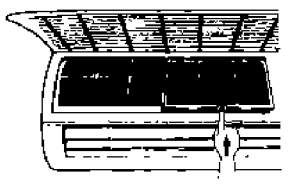
- Avoid fixing the remote controller at such corners as marked by [ ] in the left figure, near a heater, or in a place exposed to sun light.

If the entire liquid crystal display lights and/or the signal is not received when the remote controller's button is pushed, replace the batteries with new ones.

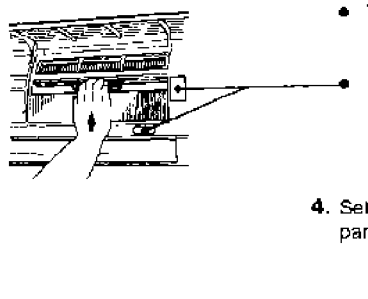


Air Purifying Filter catches pollen, dust, smoke of cigarette, and unpleasant smell.

1. Set your hands at the depressions at both sides of the front panel, and pull it forwards.



2. Push up the knob placed at the center of the air filter once, and pull down to take the air filter out.



3. Hold the Air Purifying Filter by the handle and fix it on the unit.
   - Write the date of setting Air Purifying Filter in the sticker on the filter frame. It can be a reminder for replacement of Air Purifying Filter.
   - Attach the sticker of sample colours on either right or lower part of the front grille.
4. Set the air filter back in place, and close the front panel securely.

• Replacing of Air Purifying Filter

Soiled Air Purifying Filter needs replacing. Air Cleaning Filter should be replaced every three months on average, but if their colour is similar to either of the sample colours, replace them promptly.

How to replace

Press the claws marked with arrow, and remove the frame.

Replace the filter inside, and set the frame back as they were.

As for the order for Air Purifying Filter, please contact the shop you purchased this product.

When you don't need Air Purifying Filters, operate the unit without them.

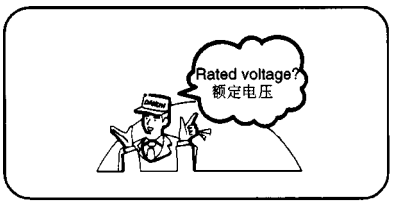
Parts Name	Code Name
Air Purifying Filter (with frame)	KAF492A1
Air Purifying Filter (without frame)	KAF492A2

NOTE

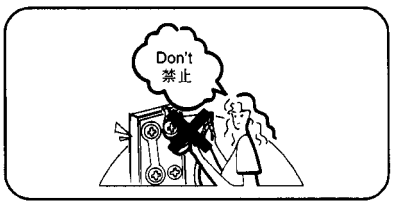
1. Air Purifying Filter can not be used more than once by washing.
2. Using Air Purifying Filters without replacing cause impairment of air flow and operating efficiency

12. Operation Manual

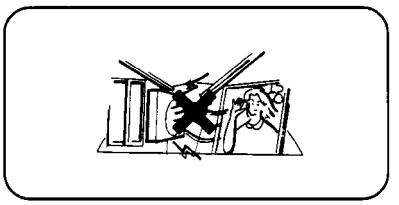
Important Cautions



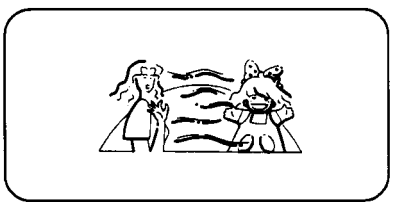
Be sure to use the air conditioner at the rated voltage.
Wrong voltage may cause troubles or fire.



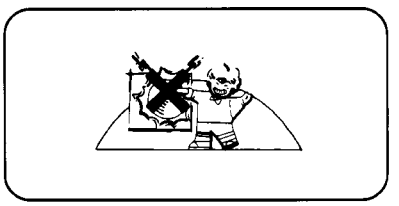
Be sure to use correct fuses or circuit breakers.



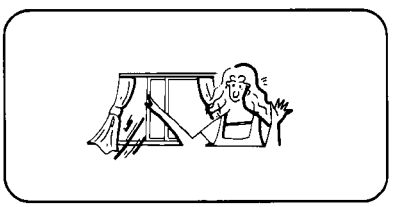
Consider the noise and vibration your neighbours will have.
Be careful that neither the noise nor the vibration from the outdoor unit will be a nuisance to your neighbours. For installing the units, please consult with the store where you bought your units.



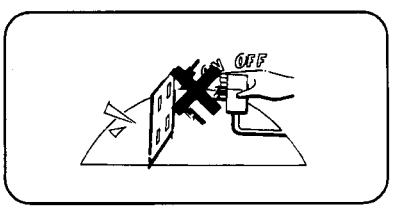
Adjust the room temperature and the airflow direction to a comfortable setting. It is not good for your health to expose your body to the airflow for a long time. Especially, never expose little children to direct air flow.



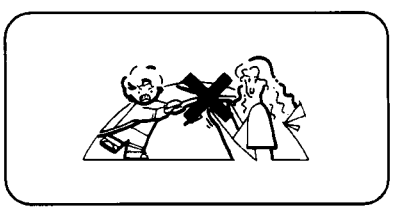
Do not put anything into the air inlet or the outlet.
Do not take off the fan guard on the outdoor unit.



Change the air in the room from time to time.
(Especially be careful when using gas burning appliances.)



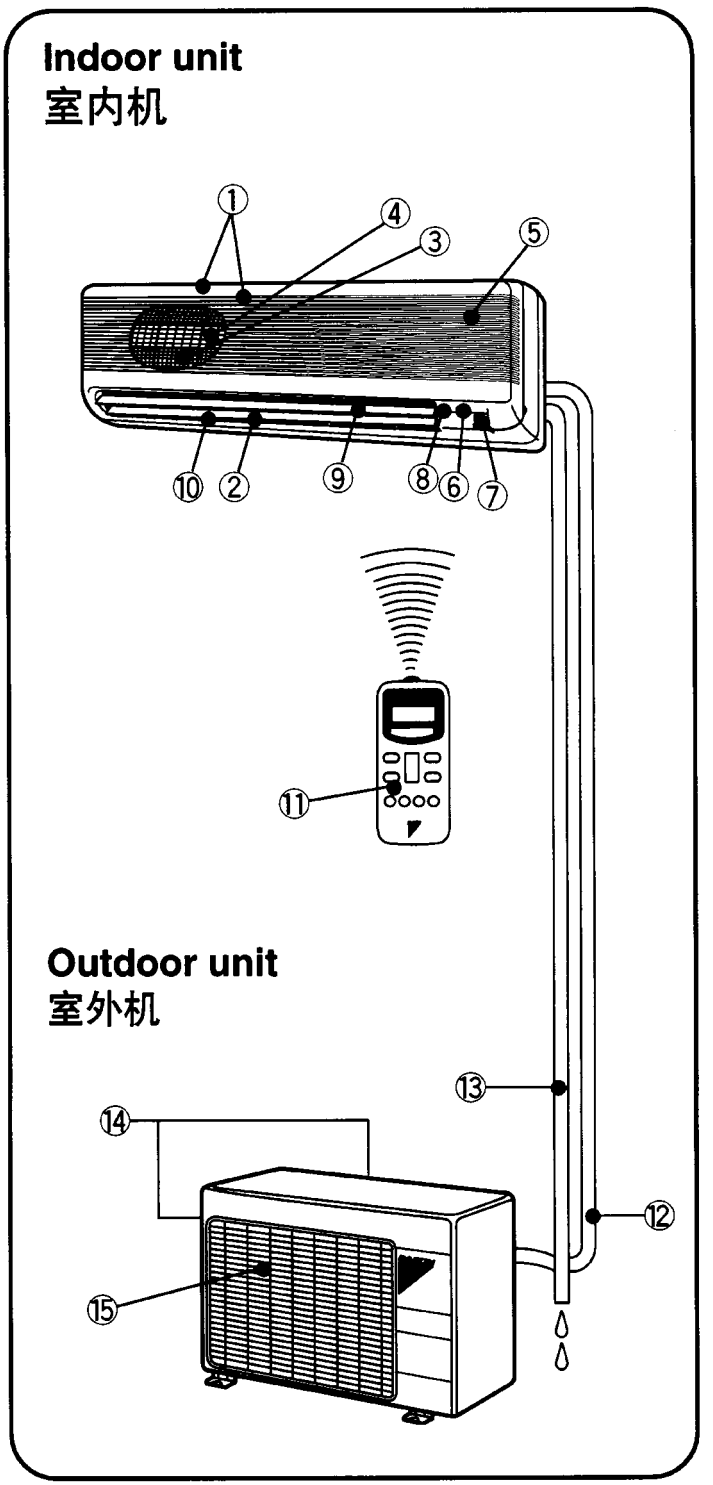
Do not turn off the machine by pulling out the power plug.
The plug can become loose, the cord can get damaged and this can cause electric shocks and overheating.



Never cut or damage the power or control cords.

3

System



〈Installation:ANW35GV1〉

Indoor unit

① Air inlets (top and front)

② Air outlet

③ Air filter

④ Air purifying filter

⑤ Front panel

⑥ Unit display panel

⑦ Unit operation panel

⑧ Model name

⑨ Horizontal blades (Flaps)

⑩ Vertical blades

⑪ Wireless remote controller

Outdoor unit

⑫ Refrigerant piping and inter-unit cable

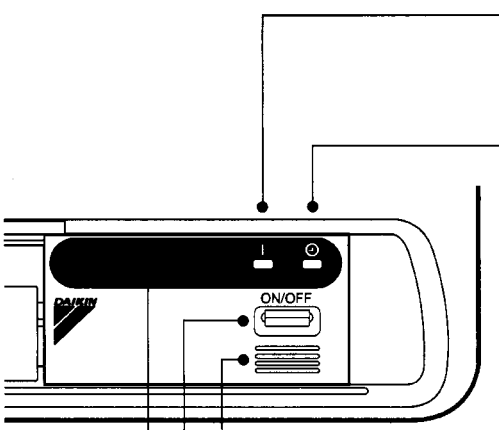
⑬ Drain hose

⑭ Air inlet (back and side)

⑮ Air outlet

Unit Display Panel and Operation Panel

■ANW23GV1



OPERATION indicator lamp (green)
Lights up on system activation irrespective of operation mode.

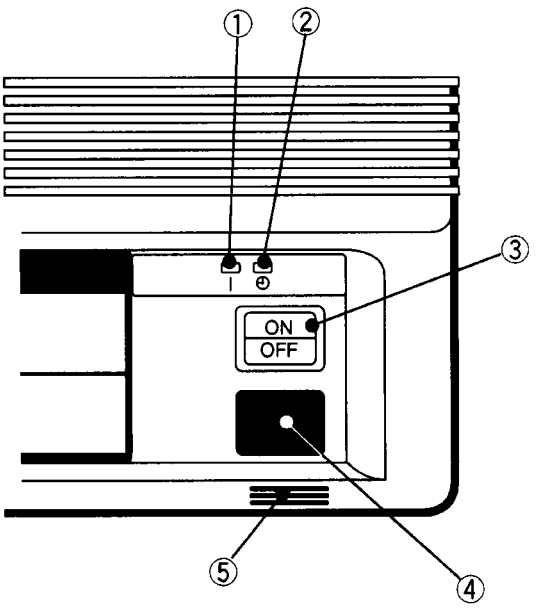
TIMER indicator lamp (green)
Lights up when "ON TIMER" or "OFF TIMER" countdown is in progress.

Temperature sensor – monitors room temperature.

ON/OFF button

Signal receiver Receives signals from the remote controller.

■ANW35GV1



① **OPERATION indicator lamp (green)**
Lights up on system activation irrespective of operation mode.

② **TIMER indicator lamp (green)**
Lights up when "ON TIMER" or "OFF TIMER" countdown is in progress.

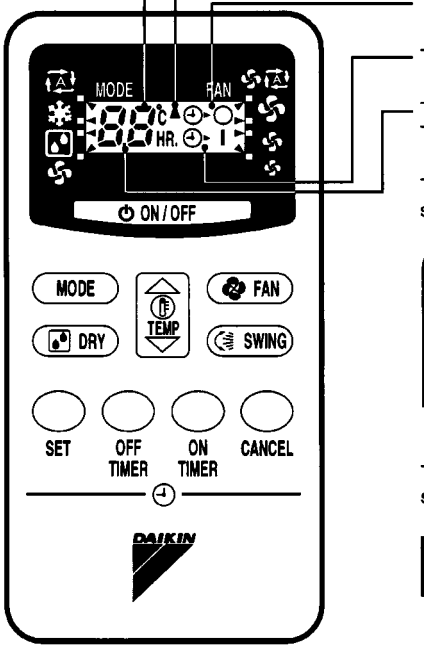
③ **ON/OFF button**

④ **Signal receiver** Receives signals from the remote controller.

⑤ **Temperature sensor** – monitors room temperature.

5

Function of Wireless Remote Controller



This section displays the set temperature.

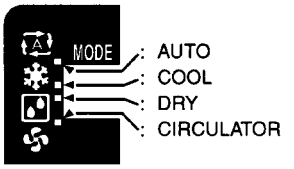
This is displayed when signals are transmitted.

This is displayed when OFF TIMER is set.

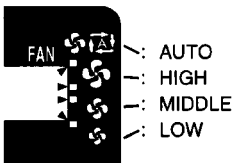
This is displayed when ON TIMER is set.

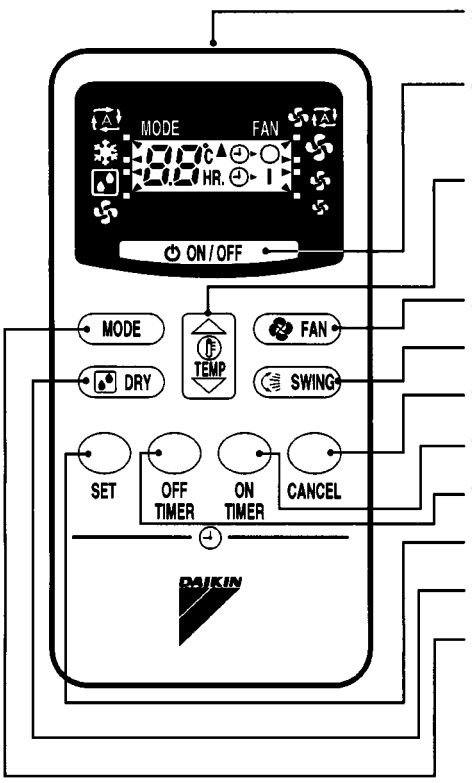
Time is displayed when ON TIMER or OFF TIMER is set.

The operation mode is shown with the following symbols.



The airflow setting is shown with the following symbols.





SIGNAL TRANSMITTER
Sends signals to the air conditioner.

ON/OFF button
Press once to start operation.
Press once more to stop operation.

ROOM TEMPERATURE ADJUSTING button
Use these buttons to set the room temperature as you like.
Temperature setting range: 16°C to 32°C

3-STEP AIR FLOW ADJUSTING button

SWING button

TIMER CANCEL button

Time adjusting button (ON TIMER)

Time adjusting button (OFF TIMER)

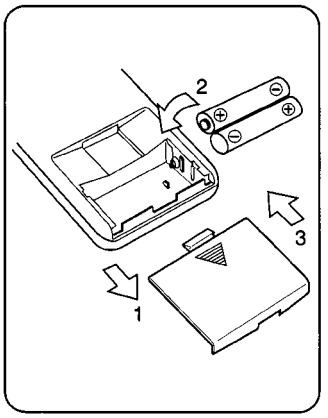
ON/OFF TIMER SET button

DRY MODE SELECTING button

OPERATION MODE SELECTOR button

Note
Display monitor function:
You can check or change settings when the air conditioner is stopped. To check, press the button once for the setting you are checking. To change the setting, press the same button again while the display is ON.

Preparation Before Operation



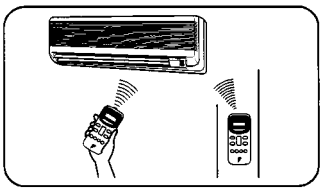
How to handle the remote controller

< Setting dry batteries >

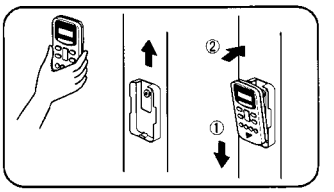
1. Slide the back cover of the remote controller in the direction of the arrow and take it off.
2. Set two dry batteries in accordance with the indications of (+) and (–).
3. Set the back cover as before.

Notes on batteries

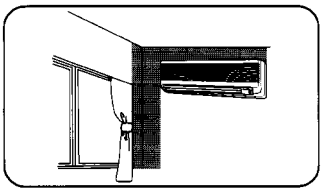
- Replace the batteries with new ones when, on pressing a button, the display shows all figures and letters at the same time and no signal communication takes place.
- Use two LR03 (AAA) batteries.
- Never mix new and old batteries or different types of batteries.
- Never try to charge the batteries.
- Used-up batteries must be taken out all at once and treated correctly.



- When using, aim the signal transmitter at the air conditioner. The operative distance between the remote controller and the air conditioner is about 7m in a straight line. A "peep" sound is heard when the unit receives a signal from the remote controller.



- To prevent loss or damages of the remote controller, fix it on a wall or a pillar using a remote controller holder. First, check that the signals from the remote controller in the place you chose can reach the air conditioner, and then fix it in the place.



- Avoid fixing the remote controller at such corners as marked by ▒▒ in the left figure, near a heater, or in a place exposed to sun light.

If the entire liquid crystal display lights and/or the signal is not received when the remote controller's button is pushed, replace the batteries with new ones.

Caution

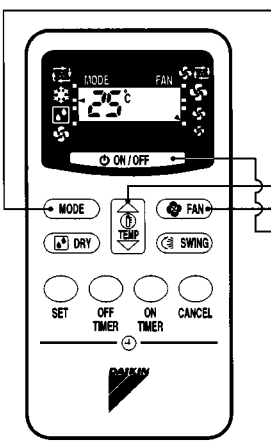
- Never throw the remote controller nor strongly shock it. Do not get it wet, either.
- Take care not to let children play with the buttons.
- In case you will not use the remote controller for a long time, take all the batteries out to prevent troubles caused by battery liquid leak.
- If there is an obstruction between the signal transmitter and the receiver, such as curtains or doors, the air conditioner will not operate.

Note

- Batteries' life is about a year under normal use.
- Dust on the signal transmitter or the receiver may reduce the receiving sensitivity. Wipe off the dust with soft cloth. (Do not use benzine, gasoline, thinner, polishing powder, machine oil, insecticides etc. to wipe them off.)
- Signals may not be received in a room with an electronic ballast type fluorescent lamp.
  Please consult with your dealer before buying a new fluorescent lamp.
- If another electric appliance is operated by the remote controller, move the appliance away, or consult with your dealer.

Operating the System

< COOL Mode Operation >



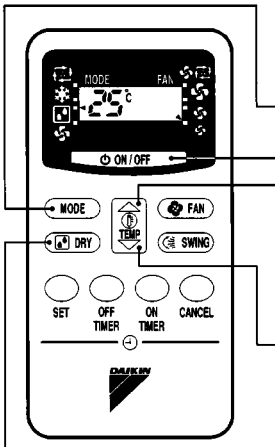
1. **Set the mode to " (COOL)".**
2. **Adjust the temperature.**
   UP
   DOWN
3. **Select the air flow of your choice.**
4. **Press ON/OFF button.**
   Then OPERATION indicator lamp lights up.

To stop:
Press ON/OFF button.
Then OPERATION indicator lamp goes out.

Note
Temperature setting
The temperature settings are mere guides, and there may be various cases depending on room sizes and room shapes. So adjust the setting until you get a comfortable temperature.

< DRY Mode Operation >

The air conditioner takes away the moisture with minimum temperature decrease.
There are two ways to set.



CASE 1

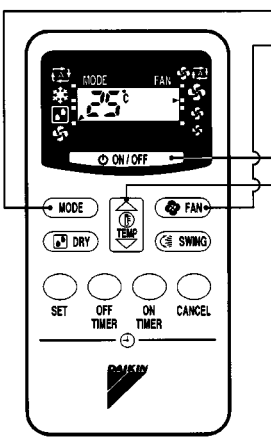
1. **Set the mode to " (DRY)".**
2. **Adjust the temperature.**
   UP
   DOWN
3. **Press ON/OFF button.**

CASE 2

1. **Adjust the temperature.**
   UP
   DOWN
2. **Press " DRY " button.**

To stop:
Press ON/OFF button.
Then OPERATION indicator lamp goes out.

< CIRCULATOR Mode Operation >



1. **Set the mode to " (CIRCULATOR)".**
2. **Select the air flow volume of your choice.**
3. **Adjust the temperature.**
4. **Press ON/OFF button.**
   Then OPERATION indicator lamp lights up.

To stop:
Press ON/OFF button.
Then OPERATION indicator lamp goes out.

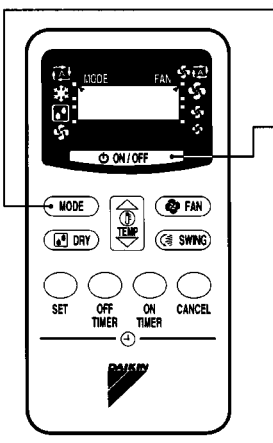
Note: Air flow volume automatically changes as room temperature changes.

Room temperature higher
than setting temperature:
at air flow volume of your choice

Room temperature lower
than setting temperature:
lower than Air flow volume of your choice

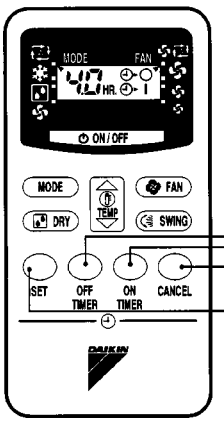
< AUTO Mode Operation >

The unit operates according to the room condition.



1. **Set the mode to " (AUTO)".**
2. **Press ON/OFF button.**
   Then OPERATION indicator lamp lights on.

To stop:
Press ON/OFF button.
Then OPERATION indicator lamp goes out.



< TIMER Mode Operation >

[OFF TIMER operation]

To operate

1. **Press OFF TIMER button.**
   One press of OFF TIMER button adds 0.5 hours to the set time.
   The maximum setting is 12 hours.
2. **Press SET button.**

To cancel
Press CANCEL button.

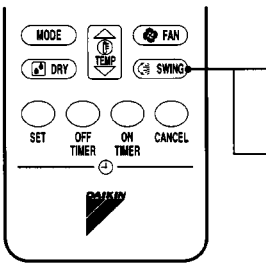
[ON TIMER operation]

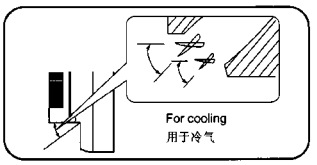
To operate

1. **Press ON TIMER button.**
   One press of ON TIMER button adds 0.5 hours to the set time.
   The maximum setting is 12 hours.
2. **Press SET button.**

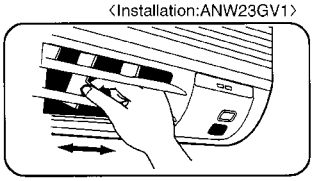
To cancel
Press CANCEL button.

Note: OFF TIMER and ON TIMER can't be operated simultaneously.





<Installation:ANW23GV1>



<Installation:ANW23GV1>

< Air Flow Direction Adjustment >

You can enjoy the refreshing air any spot in the room.

Adjusting Vertical Vane.

SWING
Press the SWING button.
The flap automatically swings according to the operation mode.

To stop SWING
Watching the flap movement, press the swing button at the position of your choice.

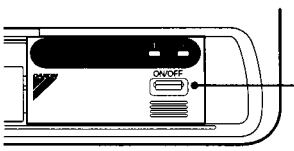
Note
Once you stop the flap at the position you like, the position is in the memory. From the next time on, the flap automatically stops at that position.

Caution
- Before adjusting the horizontal direction, stop the swing flap at a position convenient for the adjustment, referring to "Adjusting Vertical Direction".
- In COOL or DRY mode, if the flap is stopped at a downward position, the flap automatically moves in about 15(※ANW23GV1:30minutes)minutes to prevent condensation on it.

Adjusting Left/Right Vane
The vertical louvers may be adjusted as you please.

Note
If adjustment is carried out during flap swing, the flap may strike your hand. Make adjustments once the swing has completely stopped appropriate position.

■ANW23GV1



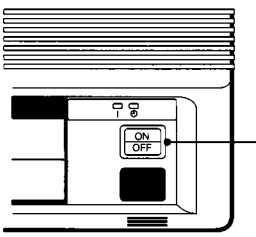
< ON/OFF button. >

In case you can not operate the air conditioner immediately because of a remote controller trouble or battery exhaustion, you can operate it by ON/OFF button.

Press ON/OFF button.
Then the operation starts, operation mode is set with cooling operation and automatical airflow by the microcomputer.

To stop:
Press ON/OFF button once again.

■ANW35GV1



< ON/OFF button. >

In case you can not operate the air conditioner immediately because of a remote controller trouble or battery exhaustion, you can operate it by ON/OFF button.

Press ON/OFF button.
Then the operation starts, operation mode is set with cooling operation and automatical airflow by the microcomputer.

To stop:
Press ON/OFF button once again.

Other Precautions

- If the air conditioner malfunctions due to lightening etc., turn the power off by the power circuit breaker. Then turn the breaker ON and press ON/OFF button again.

The following symptoms are not air conditioner troubles.

1. The air conditioner does not start soon after the switch is turned ON.

   To prevent overloading, the air conditioner does not start operation in the following cases. However, the operation will automatically start in 3 minutes.
   - When it is turned ON again immediately after stopped.
   - After OPERATION MODE SELECTOR button is used.

2. The air conditioner gives off odours.

   This is because the smells of the room, furniture, cigarettes, etc. are absorbed in the air conditioner and then given off. It is not a trouble in the unit.

3. Mists come out.

- From the indoor unit.
  This is because the room air is cooled into mist by the cool air during COOL or DRY operation.

4. The air conditioner is noisy.

- Swashing noise given out for a short time immediately after the air conditioner is started or stopped, or the thermostat is activated:
  – This is a noise produced when the gaseous refrigerant flows while operation is not stable yet.

- Faint and continuous hissing noise given out when the air flow is set to LOW:
  - This is a noise produced when the gaseous refrigerant flows.

- "Click" given out immediately after the air conditioner started cooling:
  - This is a noise produced when the air conditioner casing expands or shrinks slightly due to temperature difference.

5. The air conditioner stopped operation.

   The air conditioner may stop operation to protect itself in case of a large voltage fluctuation. The operation will start automatically again in about 3 minutes.

Operating Conditions

Use the system in the following temperature and humidity ranges for safe and effective operation.

Outdoor temperature:	19°C to 46°C
Indoor temperature:	16°C to 32°C
Indoor humidity:	80% or below (Long time operation in a humidity over 80% may cause condensation on the unit and dripping.)

If the temperature or the humidity is beyond these conditions, safety devices may work and the air conditioner may not operate.

Maintenance

Be sure to stop operation and turn the safety breaker OFF before cleaning the air conditioner.

Caution

- Do not pour water directly onto the unit.
  Operation in a wet state may cause electric leakage, fire, etc.

- Do not use water over 50°C in temperature.
  Hot water may cause deformation and discolouration.

- Never use benzine, gasoline, thinner, polishing compound, machine oil and the like when cleaning: they may cause paint peeling, crack, deformation or scratches.

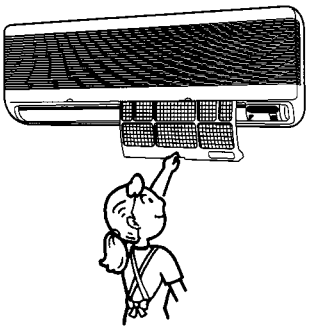
< In-season cleaning >

• Cleaning the unit and the remote controller

To clean the indoor unit, wipe it with a soft and dry cloth, or with a cloth soaked in cold water or neutral detergent.
To clean the remote controller, wipe it with a dry cloth and never use water.

Maintenance

■ANW23GV1



• Cleaning the air filters

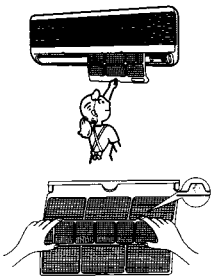
Clogged filters reduce operation efficiency.
Please clean them every two weeks or so.

1. **Taking out the air filters**
   Hold the handle at the bottom center of the air filter, and pull it down.
2. **Cleaning**
   Remove dust from the filters using a vacuum cleaner, and (gently) rinse them in cool water. (Do not use detergent or hot water: they may cause filter shrinking or deformation.)
   After cleaning, dry them in the shade.
3. **Set the air filters**
   Set them securely using both hands.
   Make sure that they are firmly locked in place.
   Unless firmly set, they may cause extra vibration or fall off.

Note
If the air conditioner is operated without air filters, dust will be let in and accumulate inside the unit. This may reduce the operation efficiency or cause troubles.

■ANW23GV1

• Replacing of Air Purifying Filter



Soiled Air Purifying Filter needs replacing. Air Cleaning Filter should be replaced every three month on average.

How to replace
Press the claws marked with arrow, and remove the frame.
Replace the filter inside, and set the frame back as they were.

As for the order for Air Purifying Filter, please contact the shop you purchased this product.

When you don't need Air Purifying Filters, operate the unit without them.

Parts Name	Code Name
Air Purifying Filter (with frame)	KAF96A41
Air Purifying Filter (without frame)	KAF96A42

NOTE
1. Air Purifying Filter can not be used more than once by washing.
2. Using Air Purifying Filters without replacing cause impairment of air flow and operating efficiency.

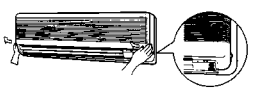
< Before a Long Idle Period >

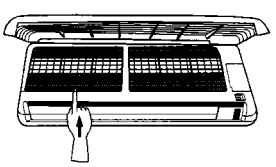
- Operate the fan alone for several hours on a fine day to dry out the inside.
- Turn the safety breaker OFF.
- Clean the air filters and set them back in place.

< After a Long Idle Period >

- Turn the safety breaker ON.
- Check that the air inlets and outlets of the indoor and the outdoor units are all unblocked. Take obstacles away if any.
- Check that the installation stand is not corroded or rusty and strong enough.
- Check that the air filters are set in place.

■ANW35GV1





• Cleaning the air filters

Clogged filters reduce operation efficiency.
Please clean them every two weeks or so.

Be sure to stop operation before performing maintenance.

<Routine maintenance>

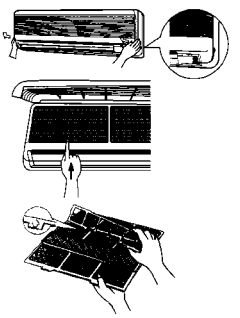
Cleaning the air filter
(It is recommended to clean them every two weeks.)

1. Take off the air filters.
   Put fingers in the notches on the unit sides and pull the front panel forward. Stop it when it is a little open. Push upwards the tab at the center of each air filter, and then pull it off downwards.
2. Clean the air filters.
   Wash them with water, or lean them with a vacuum cleaner. If the dust does not come easily, wash them with neutral detergent thinned with lukewarm water. After washing dry them completely in the shade.
3. Set the air filters.
   Operation without air filters can cause poor performance or troubles since dust will not be separated from the air.

Caution
1. Do not use water hotter than 50°C.
   It may be deform or discolour the air filters.
2. Opening the panel widely can cause a drop of the panel.

■ANW35GV1

• Replacing of Air Purifying Filter



Soiled Air Purifying Filter needs replacing. Air Cleaning Filter should be replaced every three month on average.

How to replace
Press the claws marked with arrow, and remove the frame.
Replace the filter inside, and set the frame back as they were.

As for the order for Air Purifying Filter, please contact the shop you purchased this product.

When you don't need Air Purifying Filters, operate the unit without them.

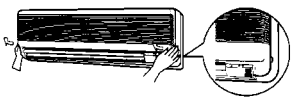
Parts Name	Code Name
Air Purifying Filter (with frame)	KAF96A43
Air Purifying Filter (without frame)	KAF492A2

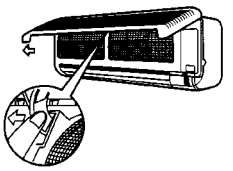
NOTE
1. Air Purifying Filter can not be used more than once by washing.
2. Using Air Purifying Filters without replacing cause impairment of air flow and operating efficiency.

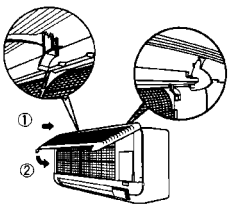
< Before a Long Idle Period >

- Operate the fan alone for several hours on a fine day to dry out the inside.
- Turn the safety breaker OFF.
- Clean the air filters and set them back in place.

Maintenance







< After a Long Idle Period >

- Turn the safety breaker ON.
- Check that the air inlets and outlets of the indoor and the outdoor units are all unblocked. Take obstacles away if any.
- Check that the installation stand is not corroded or rusty and strong enough.
- Check that the air filters are set in place.

Cleaning the front panel

1. Take off the front panel.
   Put fingers in the notches on the unit sides and raise the front panel up to about 60° from the unit. Then pull it off toward the front.

   To unhook, push the center claw to the left.

2. Clean the front panel.
   Wipe it with a soft cloth in neutral detergent thinned with cold or lukewarm water.

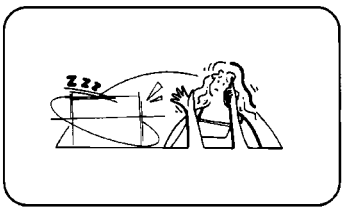
3. Set the front panel.
   Position the front panel at about 60° from the unit and fit the three claws securely as shown by the arrow ①. Then pull the panel gradually downwards, as shown by the arrow ②.

Caution
Do not use benzine, gasoline, thinner, polishing compound, scrubbing brushes, or hot water: they can damage, deform, or discolour the front panel.

Optimum Operation

- Block direct sunlight.
  Block it with a curtain or a blind during cooling.
- Take care not to cool the room too much.
- Do not leave windows or doors open.
- Clean the air filters every two weeks.
- Make the most of the timer functions to operate the air conditioner just during the needed hours.

Checks Before Calling for After-Sales Service

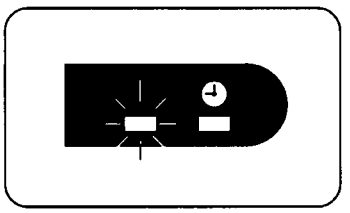


1. The air conditioner does not operate at all.

   - Haven't the fuses been blown? Aren't the breakers OFF?
   - Isn't it a power failure?
   - Are the batteries set in the remote controller?

2. Cooling is insufficient.

   - Aren't the air filters clogged?
   - Is the temperature setting right?
   - Are air inlets and outlets of the indoor and the outdoor units unblocked?
   - Isn't a door or a window open?
   - Is the air flow setting right?



3. The OPERATION indicator lamp flashes on and off.

   - In case the heat radiation is disturbed by an obstacle etc., or something is abnormal inside the air conditioner, it automatically stops operating to protect itself, informing the abnormality by the lamp flashing on and off.

     ⇓ (Action)

   - Take the obstacle away and turn the safety breaker OFF. Then turn it ON after an interval of 3 minutes and start operation again. If the same thing happens again, contact your dealer.

Checks Before Calling for After-Sales Service

If the air conditioner still does not work properly after checking the items stated above, do not repair the air conditioner by yourself, but contact your dealer.

In the following events, immediately turn the safety breaker OFF and contact your dealer.

- When an alien substance or water is put in the unit by mistake.
- The safety devices (fuses and safety breaker) work rather often.